²⁰⁸**Pb**(36 **S,X** γ) **2015Ch56**

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2015Ch56: E= 215 MeV 36 S beam was produced using the combination of XTU tandem Van de Graaff accelerator and ALPI superconducting linear accelerator at the INFN Legnaro National Laboratory, Italy. Target was 99.7% enriched 208 Pb with a thickness of 300 μ g/cm 2 on a 20 μ g/cm 2 carbon backing. Fragments were separated and identified by the PRISMA spectrometer and γ rays were detected with the CLARA array of 25 EUROBALL escape-suppressed HPGe clover detectors. Measured E γ , I γ . Deduced levels, J, π . Comparisons with shell-model calculations.

³⁸P Levels

$$\frac{\text{E(level)}^{\dagger}}{0}$$
 $\frac{\text{J}^{\pi \ddagger}}{(2^{-})}$ 380 I (4^{-})

[†] From E γ .

[‡] Proposed by 2015Ch56 based on shell-model predictions.

$$\gamma$$
(³⁸P)

$$\frac{{\rm E}_{\gamma}}{380\ I} \quad \frac{{\rm E}_{i}({\rm level})}{380} \quad \frac{{\rm J}_{i}^{\pi}}{(4^{-})} \quad \frac{{\rm E}_{f}}{0} \quad \frac{{\rm J}_{f}^{\pi}}{(2^{-})}$$

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Level Scheme

